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REPLY TO DES MOINES OFFICE

April 22, 2005

International Bureau
World Intellectual Property Office (WIPO)
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Re: 92^{bis} Letter in ^{PCT/JP03/013561}
~~WO2004037236~~

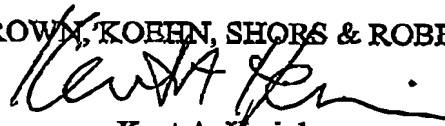
Dear Sir:

In accordance with PCT Rule 92^{bis} kindly accept and record the following changes in the Applicant for the above-cited application. The Applicant should be changed to Kemin Foods, L.C. Kemin Foods, L.C. is the owner of rights in this invention in Canada, the United States, and the countries that belong to the EPO, and should be the only Applicant listed.

Should there be any questions or additional information required, please contact the undersigned attorney of record for assistance.

Sincerely,

DAVIS, BROWN, KOEHN, SHORS & ROBERTS, P.C.



Kent A. Herink

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(12)特許協力条約に基づいて公開された国際出願

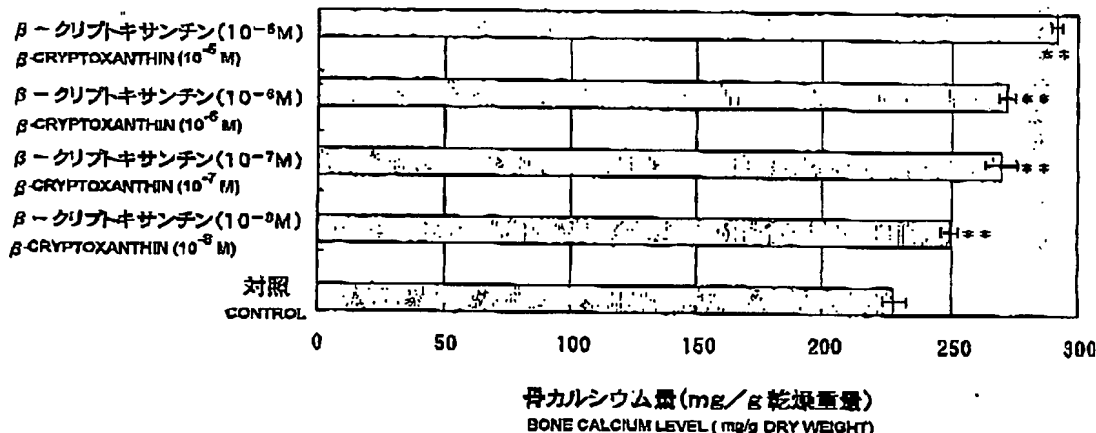
(19) 世界知的所有権機関
国際事務局(43) 国際公開日
2004年5月6日 (06.05.2004)

PCT

(10) 国際公開番号
WO 2004/037236 A1

- (51) 国際特許分類: A61K 31/045, 35/78, 45/00, A61P 19/08, 19/10, A23L 1/30
TECHNOLOGY AGENCY) [JP/JP]; 〒332-0012 埼玉県川口市本町四丁目1番8号 Saitama (JP).
- (21) 国際出願番号: PCT/JP2003/013561 (72) 発明者: および
(75) 発明者/出願人 (米国についてのみ): 山口 正義 (YAMAGUCHI, Masayoshi) [JP/JP]; 〒420-0913 静岡県静岡市瀬名川1丁目15番15号 Shizuoka (JP).
- (22) 国際出願日: 2003年10月23日 (23.10.2003)
- (25) 国際出願の言語: 日本語 (74) 代理人: 廣田 雅紀 (HIROTA, Masanori); 〒107-0052 東京都港区赤坂二丁目8番5号若林ビル3階 Tokyo (JP).
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2002年10月25日 (25.10.2002) JP (84) 指定国 (広域): ヨーロッパ特許 (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).
- (71) 出願人 (米国を除く全ての指定国について): 独立行政法人科学技術振興機構 (JAPAN SCIENCE AND

(続葉有)

(54) Title: OSTEOGENESIS PROMOTER CONTAINING β -CRYPTOXANTHIN AS THE ACTIVE INGREDIENT(54) 発明の名称: β -クリプトキサンチンを有効成分とする骨形成促進剤

(57) Abstract: It is intended to provide an osteogenesis promoter having a remarkable effect of positively promoting osteogenesis and thus preventing/treating bone diseases; a preventive/a remedy for bone diseases such as osteoporosis having both of an osteogenesis-promoting effect and a bone resorption-inhibiting effect; and a method of screening an active ingredient for preventing/treating bone diseases by using a compound having both of an osteogenesis-promoting effect and a bone resorption-inhibiting effect as a lead compound. It is confirmed that β -cryptoxanthin, which occurs in a large amount in peel and sarcocarp of satsuma orange, has an osteogenesis-promoting effect and a therapeutic effect on bone disease. Thus, β -cryptoxanthin or its composition is used as an osteogenesis promoter, a preventive/a remedy for bone diseases, a functional food or a food material for preventing/treating bone diseases and a feed composition.

(57) 要約: 積極的に骨形成を促進して骨疾患を予防・治療することができる顕著な効果を有する骨形成促進剤や、骨形成促進作用と骨吸収抑制作用の両作用を有する化合物をリード化合物とする骨疾患に対する予防・治療のための有効成分のスクリーニング方法を提供するものである。温州みかんの表皮と果肉に多く存在する β -クリプトキサンチンに骨形成促進作用及び骨疾患治療作用があることを確認し、 β -クリプト

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